

PEER-BASED LOCATION DETERMINATION

ABSTRACT OF THE DISCLOSURE

5 Sensing devices are provided within a system, and these sensing devices are used to
determine the location of emanating devices. Collocating the sensing devices with the emanating
devices allows for a determination of a relative location of each emanating device, relative to
each other emanating device, thereby obviating the need to obtain absolute locations of each
emanating device. Given the location of each device, one or more aspects of the system are
10 adjusted to improve system performance. In an audio system, the configuration and placement of
loudspeakers can be adjusted to provide a proper acoustic balance. In a wireless system, the
configuration and placement of base stations can be adjusted to prevent gaps in coverage. The
relative location of a target emanation can also be determined, and the system can be adjusted to
optimize the performance of the system relative to the location of the target emanation.